

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:  
**Crown Factory Polish**
- 1.2. Relevant identified uses of the mixture and uses advised against:  
Bowling ball cleaner for professional use. Polishing Compound.
- 1.3. Details of the supplier of the safety data sheet:  
**Brunswick Bowling Products, LLC**  
525 W. Laketon Ave.  
Muskegon, MI 49441. USA
- 1.3.1. Responsible person: -  
E-mail: [brunswick.hu@brunswickbowling.com](mailto:brunswick.hu@brunswickbowling.com)
- 1.4. Emergency telephone number: 24-hour Emergency Telephone No.: CHEMTEL +1 813-248-0585  
Customer Service: Brunswick Bowling Products, LLC: 231-725-4966

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:
- Classification according to Regulation 1272/2008/EC (CLP):  
Skin irritation 2 – H315  
Skin sensitisation 1 – H317  
Eye irritation 2 – H319  
Specific target organ toxicity (STOT) – single exposure 3 – H335  
Reproductive toxicity 1B – H360D  
Hazardous to the aquatic environment, Chronic 2 – H411

**Warning H statements:**

- H315** – Causes skin irritation.  
**H317** – May cause an allergic skin reaction.  
**H319** – Causes serious eye irritation.  
**H335** – May cause respiratory irritation.  
**H360D** – May damage the unborn child.  
**H411** – Toxic to aquatic life with long lasting effects.

- 2.2. Label elements:

**Components which define the hazards: 1-methyl-2-pyrrolidinone; D-limonene**



DANGER

**Warning H statements:**

- H315** – Causes skin irritation.  
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**H319** – Causes serious eye irritation.  
**H335** – May cause respiratory irritation.  
**H360D** – May damage the unborn child.  
**H411** – Toxic to aquatic life with long lasting effects.

**Precautionary P statements:****P201** – Obtain special instructions before use.**P261** – Avoid breathing dust/ fume/gas/mist/vapours/spray.**P271** – Use only outdoors or in a well-ventilated area.**P273** – Avoid release to the environment.**P280** – Wear protective gloves/protective clothing/eye protection/face protection.**P302 + P352** – IF ON SKIN: Wash with plenty of soap and water.**P304 + P340 + P312** – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.**P305 + P351 + P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P308 + P313** – IF exposed or concerned: Get medical advice/attention.**P403 + P233** – Store in a well-ventilated place. Keep container tightly closed.**P405** – Store locked up.**P501** – Dispose of contents/container in accordance with local / national regulations.

“Restricted to professional users”.

2.3. Other hazards:

May be harmful if swallowed or if inhaled.

Individuals with sensitive skin should wear gloves when handling.

Results of PBT and vPvB assessment: no data available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substance:

Not applicable.

3.2. Mixture:

Description	CAS number	EU number/ ECHA list number	REACH reg. nr.	Conc. (%)	Classification: 1272/2008/EC (CLP)		
					Hazard pict.	Hazard cat.	H phrase
<b>Water*</b>	7732-18-5	231-791-2	-	45 - 65	-	not classified	-
<b>Kaolin*/**</b>	1332-58-7	310-194-1	-	10 - 20	-	not classified	-
<b>2-propanol**</b>	67-63-0	200-661-7	-	5 - 10	GHS02 GHS07 Danger	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336
<b>1-methyl-2-pyrrolidinone**</b>	872-50-4	212-828-1	-	5 - 10	GHS08 GHS07 Danger	Repr. 1B STOT SE 3 Skin Irrit. 2 Eye Irrit. 2	H360D H335 H315 H319
<b>D-limonene</b>	5989-27-5	227-813-5	-	1 - 5	GHS02 GHS07 GHS09 Warning	Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H226 H315 H317 H400 H410
<b>Dipropylene Glycol Methyl Ether*/**</b>	34590-94-8	252-104-2	-	1 - 5	-	not classified	-
<b>Dipropylene Glycol Butoxy Ether*</b>	29911-28-2	249-951-5	-	0,1 - 5	-	not classified	-
<b>Mixture Of Surfactants*</b>	-	-	-	1 - 10	-	not classified	-

\*: Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

\*\*: Substance having an occupational exposure limit.

Specific concentration limit:

**1-methyl-2-pyrrolidinone**

STOT SE 3; H335: C ≥ 10 %

For the full text of H phrases: see Section 16.

#### SECTION 4: FIRST AID MEASURES

##### 4.1. Description of first aid measures:

###### IN CASE OF INGESTION:

Measures:

- If swallowed, do NOT induce vomiting.
- Give victim a glass of water or milk.
- Call a physician or poison control center immediately.
- Never give anything by mouth to an unconscious person.

###### IN CASE OF INHALATION:

Measures:

- If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

###### IN CASE OF SKIN CONTACT:

Measures:

- Wash the skin surface with plenty of water and soap.
- Get medical attention if irritation develops or persists.

###### IN CASE OF EYE CONTACT:

Measures:

- Immediately flush with water holding eyelids apart and moving the eyeballs.
- Get medical attention, if irritation persists.

##### 4.2. Most important symptoms and effects, both acute and delayed:

EYES: Irritation, redness, watering eyes.

SKIN: Irritation, defatting and drying out skin. Prolonged or repeated contact may cause skin irritation.

SKIN ABSORPTION: None Expected.

INGESTION: Nausea, diarrhea, gastrointestinal irritation

INHALATION: Can irritate mouth, throat.

##### 4.3. Indication of any immediate medical attention and special treatment needed:

No data available.

#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media:

###### 5.1.1. Suitable extinguishing media:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

###### 5.1.2. Unsuitable extinguishing media:

None known.

##### 5.2. Special hazards arising from the substance or mixture:

In case of fire, oxides of carbon, sulphur.

##### 5.3. Advise for firefighters:

Fight fire with normal precautions from a reasonable distance.

Wear full protective clothing and self-contained breathing apparatus (MSHA/NIOSH approved or equivalent).

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures:

###### 6.1.1. For non-emergency personnel:

Keep unprotected people away, allow only well trained experts wearing suitable protective clothing to abide in the field of accident.

###### 6.1.2. For emergency responders:

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.2. Environmental precautions:

Dispose the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

##### 6.3. Methods and material for containment and cleaning up:

SMALL SPILL: Pick up wash liquid with additional absorbent and place in a disposable container.

LARGE SPILL: Dike area in front of spill and contain for appropriate disposal.

##### 6.4. Reference to other sections:

For further and detailed information see section 8 and 13.

**SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling:

Observe conventional hygiene precautions.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/ fume/gas/mist/ vapours/spray.  
Wash thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.  
Individuals with sensitive skin should wear gloves when handling.

Technical measures:

No special precautions required.

Precautions against fire and explosion:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Store in a well-ventilated place.

Keep cool.

Incompatible materials: see section 10.5.

Packaging material: no special prescriptions.

7.3. Specific end use(s):

No specific instructions available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters:

Occupational exposure limit values:

**Kaolin** (CAS: 1332-58-7): 8 hours: 2 mg/m<sup>3</sup>

**2-propanol** (CAS: 67-63-0): 8 hours: 200 ppm; 15 minutes: 400 ppm

**1-methyl-2-pyrrolidinone** (CAS: 872-50-4): 8 hours: 40 mg/m<sup>3</sup>, 10 ppm; 15 minutes: 80 mg/m<sup>3</sup>, 20 ppm

**Dipropylene Glycol Methyl Ether** (CAS: 34590-94-8): 8 hours: 308 mg/m<sup>3</sup>; 50 ppm

DNEL		Routes of exposure	Exposure frequency:	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1 Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

Wash hands before eating and wash before reuse.

8.2.2 Individual protection measures, such as personal protective equipment:

1. Eye/face protection: use appropriate protective glasses (EN 166). Eye protection can mitigate potential irritation from mist / spray.

2. Skin protection:

a. Hand protection: individuals with sensitive skin should wear gloves when handling (EN 374).

b. Other: use appropriate protective equipment as required.

3. Respiratory protection: no special requirements.
4. Thermal hazards: none known.

8.2.3. Environmental exposure controls:  
No specific prescription.

**The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.**

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties:

Parameter		Test method:	Remarks:
1. <b>Appearance:</b>	blue, viscous gel		
2. <b>Odour:</b>	mild		
3. Odour threshold:	no data available*		
4. pH value:	~ 8-10		
5. Melting point/ freezing point:	no data available*		
6. Initial boiling point and boiling range:	202 °C	1-methyl-2-pyrrolidinone	
7. Flash point:	none to boiling 204 °C	1-methyl-2-pyrrolidinone	
8. Evaporation rate:	no data available*		
9. Flammability (solid, gas):	no data available*		
10. Upper/lower flammability or explosive limits:	no data available*		
11. Vapour pressure:	no data available*		
12 Vapour density:	no data available*		
13. Relative density:	1-1,3 1,026	1-methyl-2-pyrrolidinone	
14. Solubility(ies):	soluble in water		
15. Partition coefficient: n-octanol/water:	no data available*		
16. Auto-ignition temperature:	no data available*		
17. Decomposition temperature:	no data available*		
18. Viscosity:	no data available*		
19. Explosive properties:	no data available*		
20. Oxidizing properties:	no data available*		

### 9.2. Other information:

Percent volatile: 85-90

VOC: ~ 20000 - 40000 g/l

\*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet.

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:  
None known.
- 10.2. Chemical stability:  
Stable within normal temperature and general work conditions.
- 10.3. Possibility of hazardous reactions:  
Hazardous polymerization will not occur.  
See Section 10.5.
- 10.4. Conditions to avoid:  
None known.
- 10.5. Incompatible materials:  
Oxidizing agents, reducing agents, strong acids or alkali.
- 10.6. Hazardous decomposition products:  
Oxides of carbon, nitrogen, sulfur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- 11.1. Information on toxicological effects:  
Acute toxicity: Based on available data, the classification criteria are not met.  
Skin corrosion/irritation: Causes skin irritation.  
Serious eye damage/eye irritation: Causes serious eye irritation.  
Respiratory or skin sensitisation: May cause an allergic skin reaction.  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: May damage the unborn child.  
STOT-single exposure: May cause respiratory irritation.  
STOT-repeated exposure: Based on available data, the classification criteria are not met.  
Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:  
No data available.
- 11.1.2. Relevant toxicological properties of the hazardous substances:  
Information about the components:  
**1-methyl-2-pyrrolidinone** (CAS: 872-50-4):  
LD50 (oral): 3914 mg/kg  
LD50 (dermal): 2200-4000 mg/kg  
LC50 (inhalative): > 5100 mg/l  
**Dipropylene Glycol Butoxy Ether** (CAS: 29911-28-2):  
LD50 (oral): 3700-4400 mg/kg  
LD50 (dermal): > 2000 mg/kg
- 11.1.3. Information on likely routes of exposure:  
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:  
EYES: Irritation, redness, watering eyes.  
SKIN: Irritation, defatting and drying out skin. Prolonged or repeated contact may cause skin irritation.  
INGESTION: Nausea, diarrhea, gastrointestinal irritation  
INHALATION: Can irritate mouth, throat.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May damage the unborn child.
- 11.1.6. Interactive effects:  
No data available.
- 11.1.7. Absence of specific data:  
No information.
- 11.1.8. Other information:  
No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

- 12.1. Toxicity:  
Toxic to aquatic life with long lasting effects.
- 12.2. Persistence and degradability:  
Expected to biodegrade.
- 12.3. Bioaccumulation potential:  
No data available.
- 12.4. Mobility in soil:  
No data available.
- 12.5. Results of PBT and vPvB assessment:  
No data available.
- 12.6. Other adverse effects:  
No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- 13.1. Waste treatment methods:  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:  
Always check with local authorities regarding disposal of chemical products.  
FOR LARGE SPILLS: Dike area in front of spill and contain for appropriate disposal.  
European Waste Code:  
For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.
- 13.1.2. Information regarding the disposal of the packaging:  
Follow all MSDS/label precautions even after container is emptied because it may retain product residues.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:  
None known.
- 13.1.4. Sewage disposal:  
None known.
- 13.1.5. Special precautions for any recommended waste treatment:  
No data available.

**SECTION 14: TRANSPORT INFORMATION**

- 14.1. UN Number:  
UN 3082
- 14.2. UN proper shipping name:  
ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
- 14.3. Transport hazard class(es):  
9
- 14.4. Packaging group:  
III
- 14.5. Environmental hazards:  
No relevant information available.
- 14.6. Special precautions for user:  
Per IMDG 2.10.2.7, IATA Special Provision A197, and 49 CFR 171.4(c)(2) not subject to marine pollutant provisions when inner containers of combination packaging less than 5 L (liquids) or 5 kg (solids).
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:  
Not applicable.

**SECTION 15: REGULATORY INFORMATION**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:  
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC  
  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006  
  
Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
  
REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents  
  
**SVHC (Substances of Very High Concern) substances: 1-methyl-2-pyrrolidinone (CAS: 872-50-4).**
- 15.2. Chemical safety assessment: no information available.



**SECTION 16: OTHER INFORMATION**

Information regarding the revision of the safety data sheet: none.

Full text of the abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Data sources:

safety data sheet (10. 05. 2016., version 2.) issued by the manufacturer.

Methods used for the classification according to Regulation 1272/2008/EC:

Skin irritation 2 – H315	Based on calculation method
Skin sensitisation 1 – H317	Based on calculation method
Eye irritation 2 – H319	Based on calculation method
Specific target organ toxicity (STOT) – single exposure 3 – H335	Based on calculation method
Reproductive toxicity 1B – H360D	Based on calculation method
Hazardous to the aquatic environment, Chronic 2 – H411	Based on calculation method

Relevant H-Phrases (number and full text) of Section 2 and 3:

**H225** – Highly flammable liquid and vapour.

**H226** – Flammable liquid and vapour.

**H315** – Causes skin irritation.

**H317** – May cause an allergic skin reaction.

**H319** – Causes serious eye irritation.

**H335** – May cause respiratory irritation.

**H336** – May cause drowsiness or dizziness.

**H360D** – May damage the unborn child.

**H400** – Very toxic to aquatic life.

**H410** – Very toxic to aquatic life with long lasting effects.

**H411** – Toxic to aquatic life with long lasting effects.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:  
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